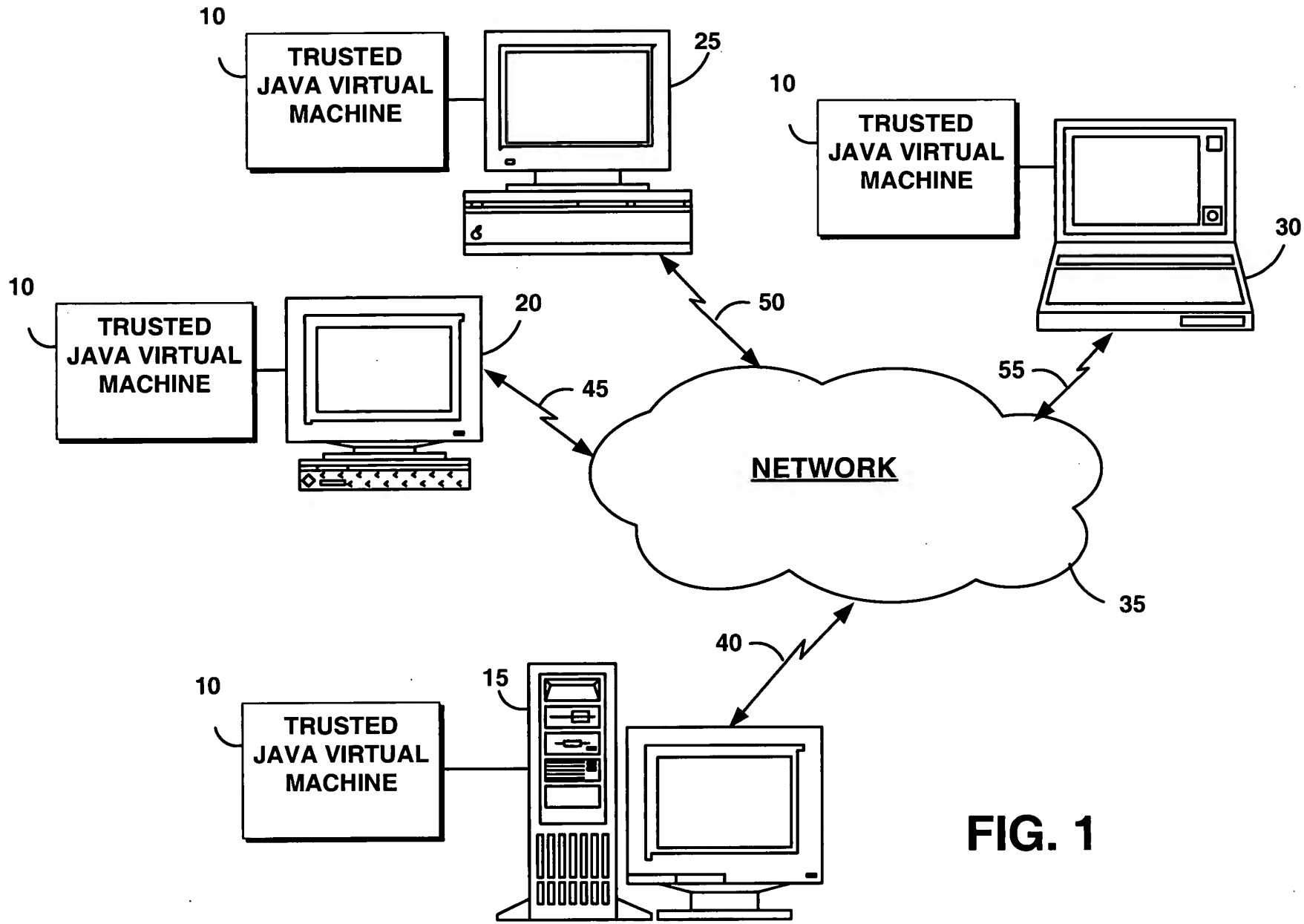
10
TRUSTED JAVA VIRTUAL MACHINE
25
10
TRUSTED JAVA VIRTUAL MACHINE
30
10
TRUSTED JAVA VIRTUAL MACHINE
20
50
45
55
NETWORK
35
40
10
TRUSTED JAVA VIRTUAL MACHINE
15

FIG. 1

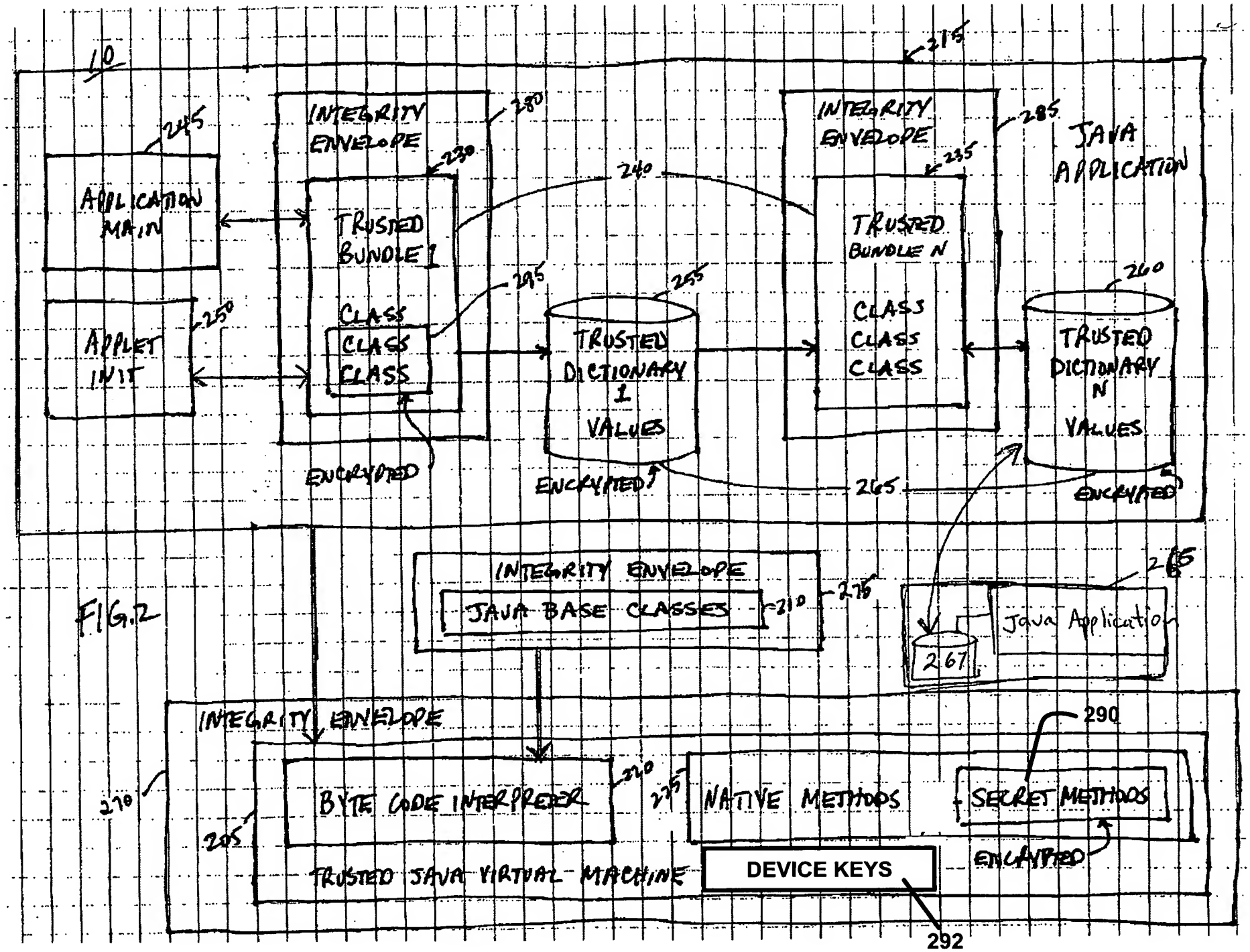
10
215
INTEGRITY ENVELOPE
280
APPLICATION MAIN
225
TRUSTED BUNDLE 1
230
240
INTEGRITY ENVELOPE
285
JAVA APPLICATION
TRUSTED BUNDLE N
235
APPLET INIT
250
CLASS
CLASS
CLASS
295
TRUSTED DICTIONARY 1 VALUES
255
CLASS
CLASS
CLASS
TRUSTED DICTIONARY N VALUES
260
ENCRYPTED
ENCRYPTED
265
ENCRYPTED
INTEGRITY ENVELOPE
JAVA BASE CLASSES
210
275
Java Application
267
INTEGRITY ENVELOPE
290
BYTE CODE INTERPRETER
220
NATIVE METHODS
SECRET METHODS
ENCRYPTED
TRUSTED JAVA VIRTUAL MACHINE
DEVICE KEYS
292

FIG. 2

300

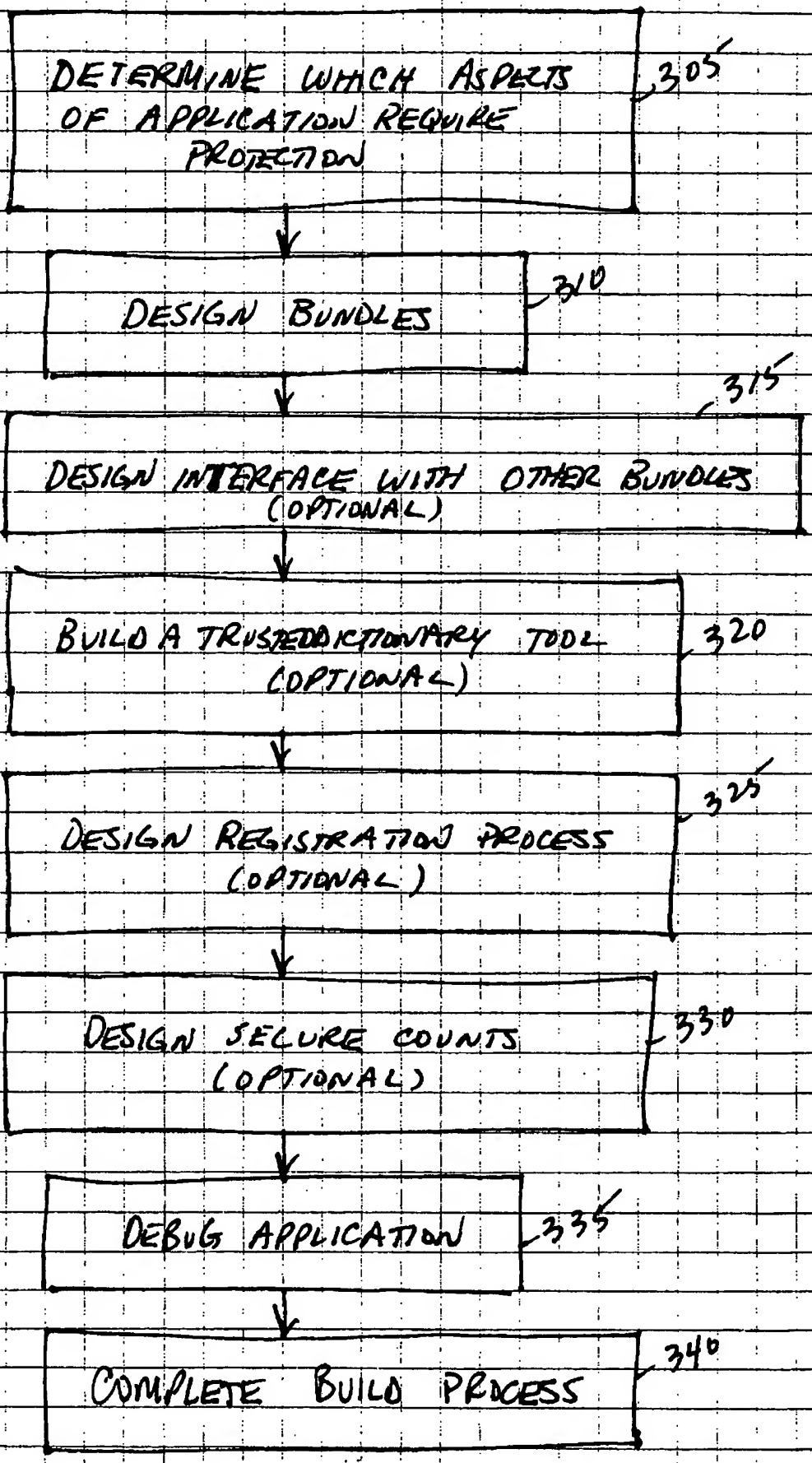
DETERMINE WHICH ASPECTS OF APPLICATION REQUIRE PROJECTION
305
DESIGN BUNDLES
310
DESIGN INTERFACE WITH OTHER BUNDLES (OPTIONAL)
315
BUILD A TRUSTED DICTIONARY TOOL (OPTIONAL)
320
DESIGN REGISTRATION PROCESS (OPTIONAL)
325
DESIGN SECURE COUNTS (OPTIONAL)
330
DEBUG APPLICATION
335
COMPLETE BUILD PROCESS
340

FIG. 3

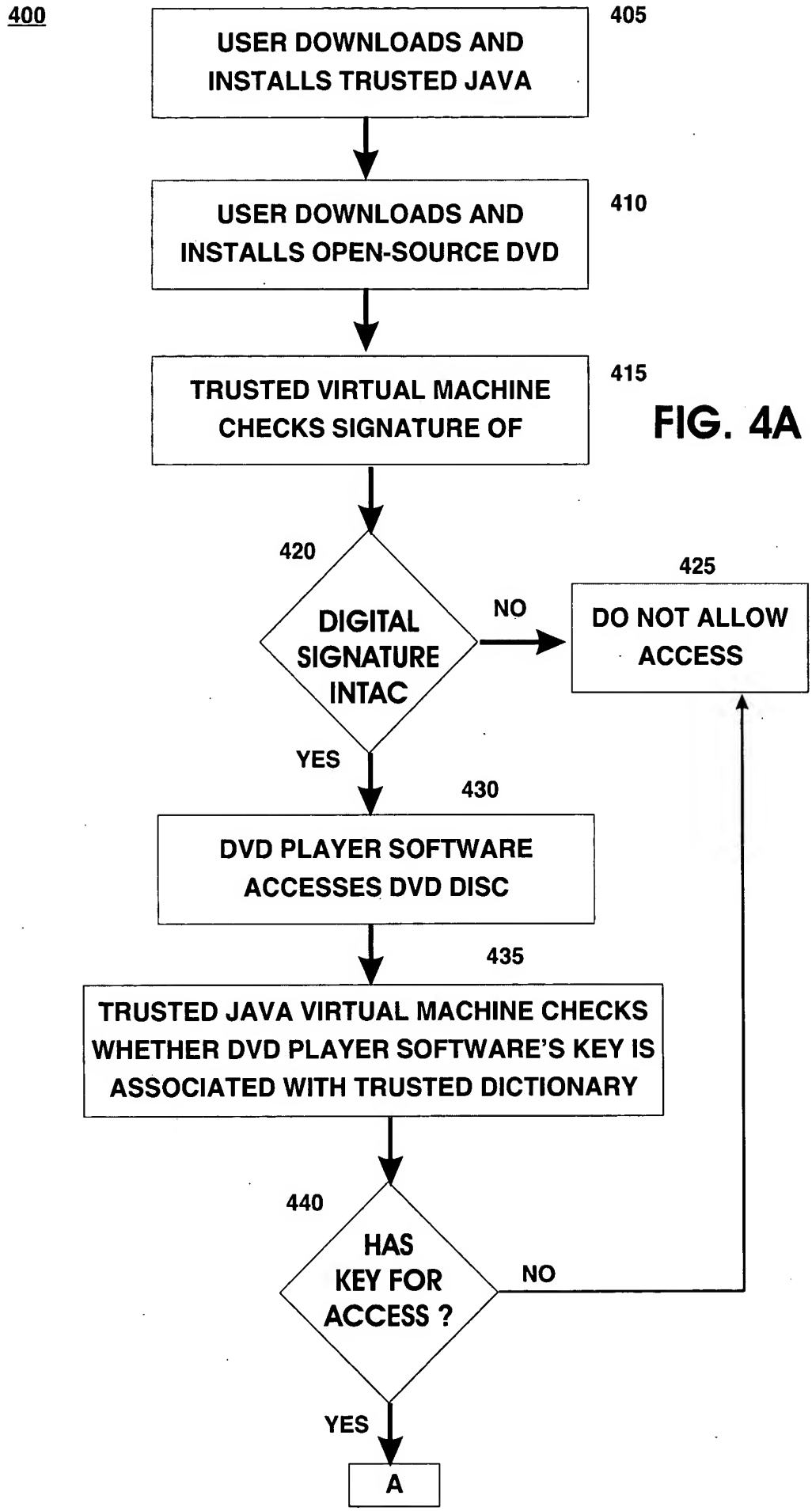
400
USER DOWNLOADS AND INSTALLS TRUSTED JAVA
405
USER DOWNLOADS AND INSTALLS OPEN-SOURCE DVD
410
TRUSTED VIRTUAL MACHINE CHECKS SIGNATURE OF
415
420
DIGITAL SIGNATURE INTAC
NO
425
DO NOT ALLOW ACCESS
YES
430
DVD PLAYER SOFTWARE ACCESSES DVD DISC
435
TRUSTED JAVA VIRTUAL MACHINE CHECKS WHETHER DVD PLAYER SOFTWARE'S KEY IS ASSOCIATED WITH TRUSTED DICTIONARY
440
HAS KEY FOR ACCESS ?
NO
YES
A

FIG. 4A

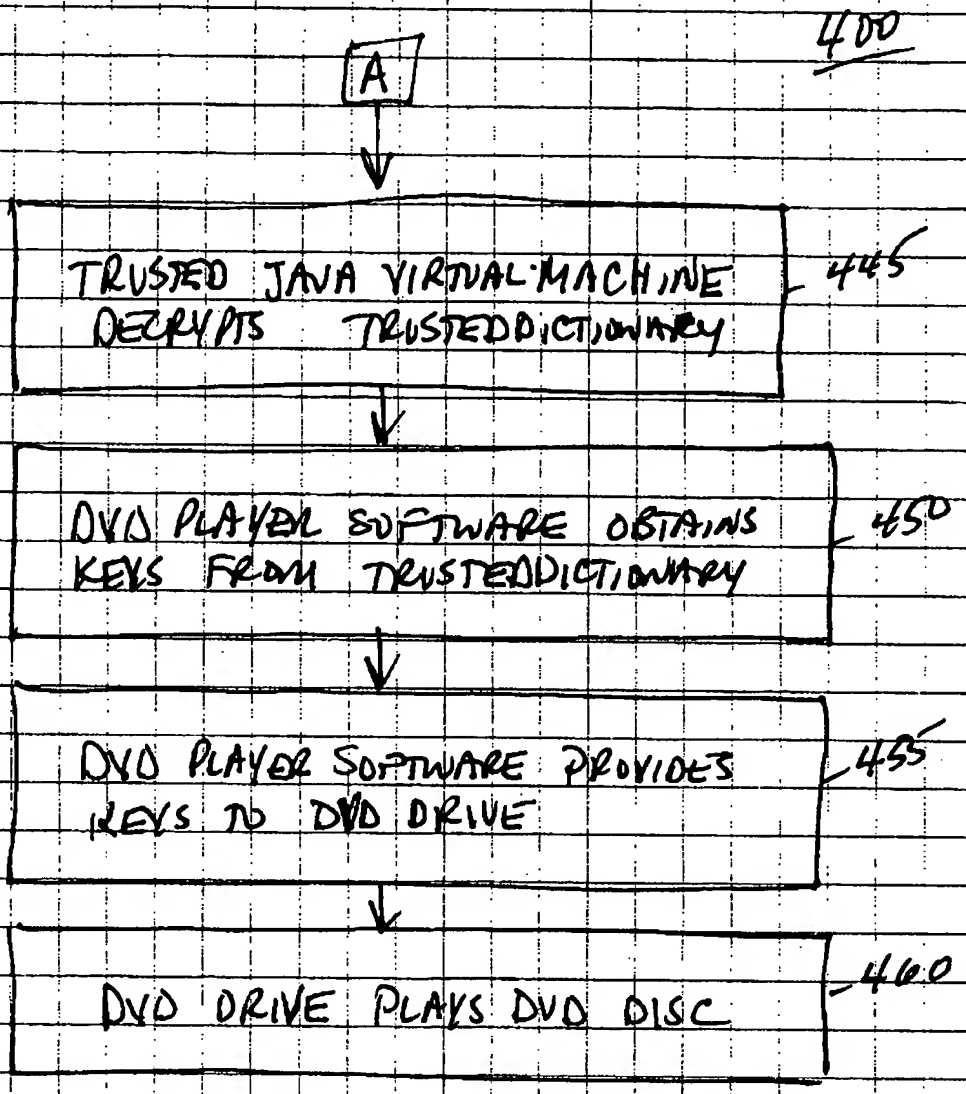
400
A
TRUSTED JAVA VIRTUAL MACHINE DECRYPTS TRUSTEDDICTIONARY
445
DVD PLAYER SOFTWARE OBTAINS KEYS FROM TRUSTEDDICTIONARY
450
DVD PLAYER SOFTWARE PROVIDES KEYS TO DVD DRIVE
455
DVD DRIVE PLAYS DVD DISC
460

FIG. 4B